FACING CHALLENGES AS YOUNG ENGINEERS

Institution of MECHANICAL ENGINEERS

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www.imeche.org



Improving the world through engineering

SHOW OF HANDS!

How many of you are...

- aware of Continuous Professional Development?
- using a Personal Development Plan?
- a member or an affiliate of a PEI?



AGENDA

10+ Year Engineering Career

Facing Challenges as Young Engineers

IMechE & Young Member Panels

WHY ENGINEERING?

Engineering is;

- Fun
- Challenging
- Stable Career
- Versatile

WHY IMECHE?

IMechE is;

- Worldwide
- Prestigious
- Experienced
- Volunteering

10+ YEAR ENGINEERING CAREER

- BEng Mechanical Engineering at Karadeniz Technical U.
- Contract: AutoCAD Mechanical Engineer in Turkey
- Moved to the UK with Turkish Government Scholarship
- Zero-hour: Hospitality Jobs (ManC, ManU, Aintree, etc.)

08

09

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18

- MSc Mechanical Engineering Design, UoM
 Temporary: SolidWorks Draughtsman, Chemquip Ltd
- 1-year of Research in Mechanical Engineering, UoM
- Contract: Manufacturing Engineer Support at Airbus
- Permanent: Design Engineer Subsea Cable Protection Trelleborg Offshore UK Ltd & later BMP Europe Ltd 12
 - PgCert Project Management (ODL), RGU
 - Chartered Engineer & IMechE Lancashire
- Patent of "Ducting" for Subsea Cables 16
 - Permanent: Design Engineer, John Crane UK Ltd
 - Volunteering: Vice Chair at the IMechE Lancashire Area
 - Volunteering: STEM Ambassador
 - Volunteering: Honorary Chair at the IMechE Lancashire



















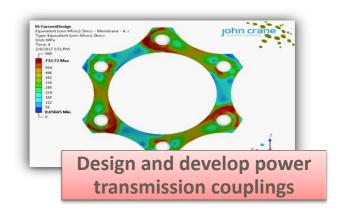






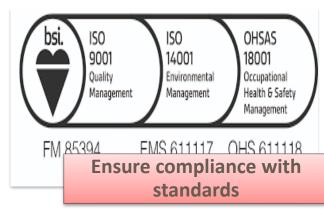


DESIGN ENGINEER IN COUPLINGS R&D



















5-KEY CHALLENGES FACING YOUNG ENGINEERS

CAN I FIND A SCHOLARSHIP?

Young member awards

Apprentice and EngTech awards Conference and training awards Industry and special interest group awards Prestige awards Undergraduate and postgraduate awards Vision awards Volunteering, group and project awards



Contact our Prizes and Awards Team awards@imeche.org +44 (0) 128 471 7887

SHALL I WORK, OR STUDY FURTHER?



If you study Masters, you have to pay student loans, but your employability and earning potential rises significantly.

If you study PhD, you will become highly specialised and reduce the choice of jobs available to you at the start of your career.



HOW DO I GET RELEVANT EXPERIENCE?

Work experience (shadowing)

Internships (fixed-term and unpaid or paid)

Voluntary work (no contract, unpaid)

Temporary work (anytime)

Contract work (fixed-term or zero-hour)

Permanent employment (full benefits)



AIM IS
TO GET
GOOD
REFERENCES!

found him to be a

will always look to

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a new skill

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ie is a good one to

s career.

is keen to find

Dear Murat,

29 October

Thank you for all your help in translating for myself and all the other Directors at our recent luncheon with the Directors of Bursaspor.

Mr M Islan

Mancheste

Your assistance is very much appreciated and I believe you helped again with the Visiting Directors dinner prior to the game.

Dear Mura

Thank you luncheon w

Your assist

Should we skills once

Should we have a visiting party over from Turkey again, I hope you won't mind us calling on your skills once more. As a gesture of our appreciation I have enclosed a small gift.

Kind regard

Yours sino

David A G

Kind regards,

Yours sincerely,

David A Gill Chief Executive

MANCHESTER UNITE

Telephone: 0161 868 8000. Facsimile: 0161 868 8804; www.manutd.com Regioned in England No. 25700N, VAT No. G8 541 0952 31 eagues at John

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HOW DO I DEVELOP MY CAREER?

Personal SWOT analysis

Setting Development Goals

What do I	What do I	What support	How will I	Target
want to	have to	and resources	measure	date for
learn/gain?	do?	will I need?	success?	review?

Setting Objectives

Short/Medium/Long Term



PERSONAL DEVELOPMENT PLAN



HOW DO I DEVELOP MY CAREER?

Networking

Classroom or Online Training

Books / Audiobooks

Peer reviews, Mentoring and Coaching

Shadowing experienced people

Lectures, Seminars or Conferences



PERSONAL DEVELOPMENT PLAN



HOW DO I DEVELOP MY CAREER?

Learn from great mentors!



"Everything in the universe is within you. Ask all from yourself." – Rumi

"Luck is what happens when preparation meets opportunity." — Seneca

"Innovation comes from people who take joy in their work." — Deming



HOW DO I ESTABLISH MY PERSONAL BRAND?

Skills & Expertise

Affiliations

Publications

Track Record

Presentations

Online Presence









Institution of MECHANICAL ENGINEERS

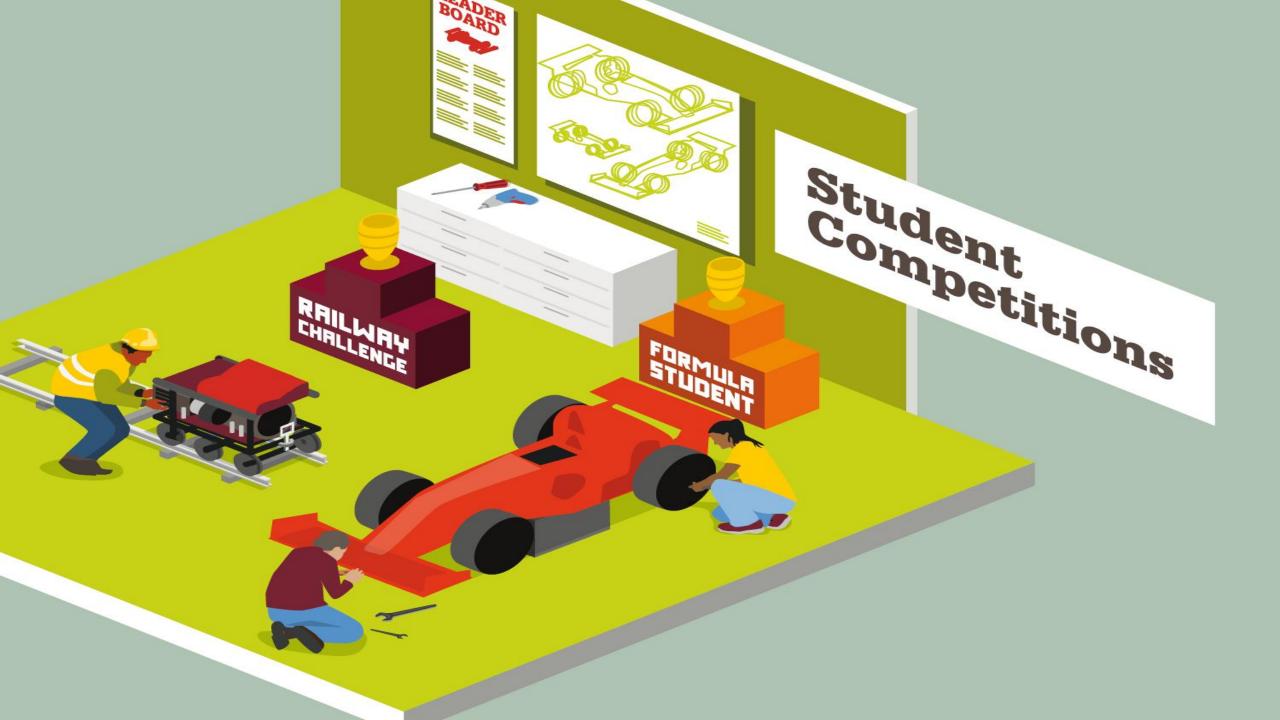
Represents and promotes the interests of engineering and engineers globally

The fastest growing engineering institution in the UK

Licensed by Engineering Council to award EngTech, IEng and CEng registration

Supports all disciplines of the mechanical engineering community

Provides learning and development support at every stage of your career



STUDENT COMPETITIONS

Getting involved at your university:

Formula Student
Railway Challenge
Design Challenge
Aerospace Challenge
Unmanned Aircraft Challenge

★ Speak Out For Engineering Global Engineering Debate Scholarships and Awards





CAREERS ADVICE AND SUPPORT

Industry information

Careers advice

Engineers' video profiles

Job search advice

Job application and process guidance

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+44 (0)20 7973 1274

REVIEW & LIST OF REFERENCES



JOIN YOUR PROFESSIONAL INSTITUTION THE FIRST STEPS TO PROFESSIONAL REGISTRATION.

International recognition of your competence

Career enhancement, creating opportunities

Increased earning potential

Ongoing development

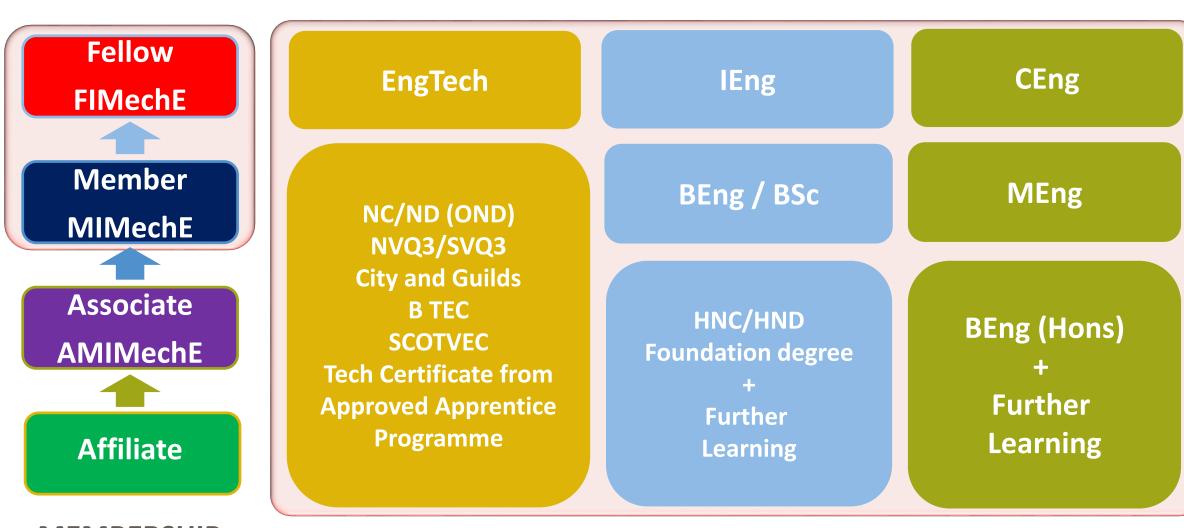
Be part of a professional Institution

Gain access to life-long learning from the IMechE

Professional credentials

Ruth Shilston, CEng MIMechE Chair IMechE Young Members Board 2013

FORMAL MEMBERSHIP & QUALIFICATIONS



MEMBERSHIP

EXPERIENCE OR QUALIFICATIONS TOWARDS MEMBER COMPETENCY

YOUNG MEMBER NETWORKS

Member networks around the world

Institution staff and local volunteers of students and post-graduates working together

Activities across a broad spectrum of industries

Hosting technical and social events, working on engineering initiatives, and raising the profile of engineering

Provide great networking and volunteering opportunities

Young Members' Board



GET ACTIVE WITH IMECHE

As an Affiliate you can get involved:

Be part of a Professional Network

Join a local Young Member Panel / Student Chapter

Join in events and STEM initiatives

Meet with fellow engineers and future employers

Share experience, help to build your knowledge and support others

Build soft professional skills

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NORTH WEST REGION YOUNG MEMBER PANELS

https://nearyou.imeche.org/near-you/UK/North-Western

GMYMP /greater-manchester-young-member-panel

NLYMP /north-lancashire-young-member-panel

SLYMP /south-lancashire-young-members-panel

SCYMP /south-cumbria-young-member-panel

West Cumbria Young Members Panel /WCYM

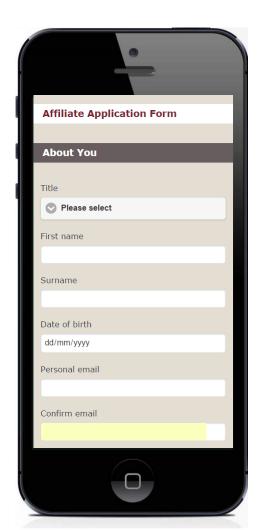


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AFFILIATE MEMBERSHIP HOW TO APPLY.

MEMBERSHIP & REGISTRATION JOIN US AND BE PART OF A GLOBAL NETWORK OF OVER 120,000 EXCEPTIONAL ENGINEERS IN 140 COUNTRIES.

Sign up at; www.imeche.org/uni





THANK YOU

Murat Islam CEng MIMechE Chairman, IMechE Lancashire Area Institution of MECHANICAL ENGINEERS

www.linkedin.com/in/muratislam/ www.facebook.com/imechelancashire/ nearyou.imeche.org/near-you/UK/North-Western/Lancashire-Area

For more information on professional registration please contact:

Emma Guy – Business Development Manager, IMechE North West Region
e_guy@imeche.org

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